

**CHANNEL MONITORING AND IDENTIFICATION AND PERFORMANCE
MONITORING IN A FLEXIBLE HIGH SPEED SIGNAL PROCESSOR
ENGINE**

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ABSTRACT

Systems and methods are disclosed to provide channel monitoring and/or performance monitoring for a communication channel. For example, in accordance with 10 an embodiment of the present invention, an equalizer is disclosed that equalizes for channel distortions and also provides channel and performance monitoring information, such as for example bandwidth estimation, channel 15 identification, signal-to-noise ratio, chromatic dispersion, and/or polarization-mode dispersion.